

ELECTRONIC DESCALING



Model CBI for Explosive Atmosphere (Foil Protective Cover Removed)

Cal-Ban™ is a revolutionary new device that treats water to prevent and remove hard scale

Cal-Ban™ is manufactured by Watersol Inc. in Calgary, Alberta, Canada. After years of development and testing, it is demonstrating its effectiveness in the prevention and removal of calcite, magnesium and barium sulfate scales. Check the following benefits

Cal-Ban™ can be used in any place scaling is a problem: cooling towers, boilers/steam generators, heat exchangers and hot water systems to name a few and is equally effective with steel, copper or PVC plastic pipe. No plumbing or pipefitting required.

Minimum Flow Requirements

Nominal Pipe Diameter	Minimum Flow Required		
	Inches	US GPM	IMP. GPM
2	10	8	40
3	30	25	100
4	50	40	180
6	110	90	410
8	195	160	730
10	310	260	1,170
12	440	370	1,670

TECHNICAL DATA

- > **Power requirements:**
110 volt, 60 Hz, 1 Ph.
- > **Regulatory approvals:**
CSA inspected and labeled for general purpose.
CSA inspected and labeled for Class 1, Division II explosive atmospheres.
- > **Enclosure:**
Type 4, 4x, 12. Weather proof+
- > **Installation requirements:**
Approximately 3 feet (1 M) clean bare pipe free of bends, fittings and valves.

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Cal-Ban™ industrial models can be used on pipe sizes of 2" (50 mm) to 12" (300 mm). It is equally effective on steel, copper and PVC plastic pipe. **Cal-Ban™** uses a complex electronic circuitry to alter the chemicals in solution so that they will not form hard precipitates. Electronic de-scaling is especially effective in the prevention of calcite and barium sulfate scale. **Cal-Ban™** exerts a dynamic force on the moving ions that cause scaling sufficient to free them from the electrostatic bond with the water molecules. The particles of water are subjected to a current that causes the polarity of the ions to change and has the effect of raising the natural surface charge of the micro particles in the water. This electrical field causes a crystallization process to happen, and the ions to become artificially saturated. Because of the difference in polarity the micro particles stick to each other, not to pipe and vessel surfaces, forming larger particles. The crystals formed are stable for up to 5 days.

MANUFACTURED BY

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